

AMENDMENTS TO THE SPECIFICATION

Page 71, amend the paragraph after the paragraph beginning “Fig. 2” as follows:

Fig. 2b. depicts a ~~methodolgy~~methodology for optimization;

Page 85 amend the paragraph after the paragraph beginning “Fig. 2” as follows:

The cells of MK16 compartment 60 are megakaryocytes of 16N-ploidy class that release platelets (Plt) at a constant uniform rate (γ_{MK16}) until they exhaust their capacity (C_{MK16} , for example), and then are disintegrated. For background details, see, Harker LA, Finch CA: Thrombokinetis in man. *J Clin Invest.* 1969; Vol.48; pp. 963-974; and Eller J, Gyori I *et al*: ~~Modelling~~Modeling Thrombopoiesis regulation – I: model description and simulation results. *Comput Math Applic.* 1987; Vol. 14 (9-12); pp. 841-848.

Page 115, after the first unfinished paragraph, insert the following paragraphs:

Fig 8A and B show TPO given to healthy donors: Results of TPO clinical trials from recent research on healthy platelet donors, as compared to our computer simulation results. (A) Comparison of experimental data from the literature (dots) and our model simulation (solid line). In both cases, TPO was given as a single IV dose of 1.2 $\mu\text{g/kg}$ on day 0. (B) Comparison of the same experimental data (dots) and our proposed TPO administration protocol; the total dose in the simulated protocol was 0.3 $\mu\text{g/kg}$ (solid line).

Figs. 9A and B show TPO with chemotherapy: (A) Results of clinical trials from recent research on thrombocytopenia induced in patients receiving single carboplatin chemotherapy on day 0 (dots connected by line), as compared to our model simulation of these results (continuous

solid line). (B) The same experimental data (dots connected by line) compared to simulations of the same chemotherapy protocol, with addition of “conventional” TPO as a single IV dose of 1.2 $\mu\text{g/kg}$ on day 0 (continuous solid line) and simulations of the same chemotherapy protocol combined with our proposed TPO protocol, using a total of 0.3 $\mu\text{g/kg}$ TPO (dotted line).

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AMENDMENTS TO THE DRAWINGS

Submitted herewith is (1) annotated drawing sheet, Fig. 3 and (3) replacement drawing sheets, Figs. 7-9B.

Enclosures: Annotated sheet
 Replacement sheets